

AUTOREG® flow control structure

Nîmes (30)

The Communauté d'Agglomération de Nîmes, seeking to optimise the operation of its treatment plants, issued, in the spring of 2013, a call to tender concerning "work for the construction of a wastewater collector and the reinforcing of the drinking water network". The approach includes a structure for regulating the flow of the wastewater joining the plants of the towns of Bezouze – Saint Gervasy and Marguerittes.



APPRAISAL

The technical data for this project is the regulation of low flow rates on a combined network, characterised by an average flow rate of 14 m³/h and 33 m³/h at peak and with an operation limited to two hours per day in rainy weather. The analysis of this data led us to propose a prefabricated flow control structure equipped with AUTOREG®.

DESIGN

Equipment comprising AUTOREG® :

- Ultrasound probes, for accurate measurements of water heights, installed upstream of the headwaters
- Measurement channel equipped with a chicane, in order to ensure a stable body of water regardless of the water pressure upstream
- Motorised valve, which provides regulation for the rate of opening of the piping, in order to control the flow
- Control cabinet, which authorises global management for the unit, report of information via remote monitoring, and the triggering of an automatic unclogging cycle

All of this equipment is installed in a prefabricated structure made of steel.

BUILDING

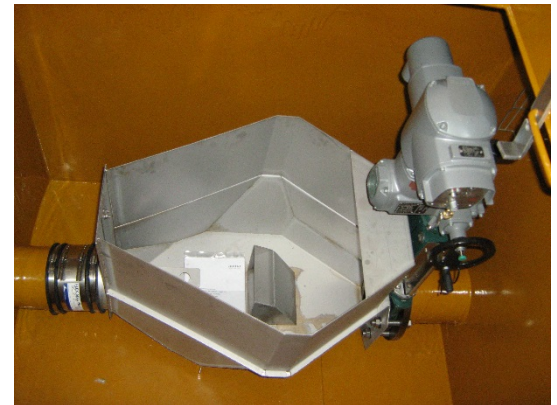
Characteristics of the steel structure

- Made from coated steel in our workshop in Lille (59)
- Dimensions : 2.2m wide x 1.5 m high
- Ready-to-install structure, factory-equipped with all of the AUTOREG® elements
- Ladders and access to all of the elements that comprise AUTOREG®

FOLLOW-UP

The installing of this structure equipped with AUTOREG® was done in June 2014 and the tests carried out, in October 2014, convinced the Communauté d'Agglomération de Nîmes.

Date of commissioning	2014
Client	Comm. Agglo. De Nîmes
Contractor	Comm. Agglo. De Nîmes
Companies	Group. MALET / SCAM



AUTOREG® - Regulation channel



AUTOREG® - Hydraulic structure